

Contemporary Methods of Examining Transients in
A. C. Machines, by E. Ya. Kazovskiy, M. P.
Koshenko.

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Energ i Avtomat, No 4, 1959, pp 11-22.

NIL M. 3232

OTS 60-15042

189, 815

Sci - Ingr

Apr 62

Reliability and Accuracy of Automatic
Prediction, by N. G. Bruyevich

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#FTD-TT-61-138

Sci - Engr

11 Oct 61

Popov, Ye. P.

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Order from OTS or SLA \$1.60

61-19793

Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya Energetika i Avtomatika, 1959, no. 4, p. 97-105.

DESCRIPTORS: *Automatic volume control, Stability, Oscillation.

Unlike the linear systems, introduction of oscillation in the useful signal may change substantially the gain of the non-linear useful signal link. As a result of this, the expected static and dynamic characteristics (Engineering--Electronic, TT, v. 6, no. 3) (over)

61-19793

- I. Popov, Ye. P.
- II. RTS-1749
- III. Department of Scientific and Industrial Research (Gr. Brit.)

175293

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On Designing Self-Adaptive Systems With Two-Step
Control of the Parameters, by Yu. M. Kozlov.

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On the Stability of Compressors as Non-Linear
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TIL 4257

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Sci - Engr

Sep 61

Bulgakov, B. M. and Shestopalov, V. P.
INFLUENCE OF A MAGNETODIELECTRIC MEDIUM
ON ELECTROMAGNETIC WAVE PROPAGATION IN
A SPIRAL WAVEGUIDE PLACED IN A MAGNETO-
DIELECTRIC. [1960] 15p. 22 refs.
Order from MDF \$8.00

MDF B-171

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(Engineering--Electronic, TT, v. 5, no. 3)

61-12169

1. Electromagnetic waves--
Propagation
2. Helices--Electromagnetic
properties
3. Dielectrics--Electro-
magnetic effects
- I. Bulgakov, B. M.
- II. Shestopalov, V. P.
- III. MDF B-171
- IV. Friedman, Morris D., Inc.,
West Newton, Mass.

9076085

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Mechanism of Initiation of Detonation in
High Explosives, by K. K. Andreyev.

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NLL M.4610

Sci. - Phys.

May 62

193,746

(DC-3158).

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G. I. Zhornitskiy, 3 pp.

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Steam Turbines, 2 pp.

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JPRS - 2122-N

USSR

Sci - Engineering

Oct 59

(NY-3137).

Third All-Union Joint Conference on Automation
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Automated Electric Drive in Industry, 5 pp.

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Energetika i Avtomatika, No 4, Moscow,
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JPRS-2122-N

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Sci - Engineering

Jan 60

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Shchelkin, K. L.
A POSSIBLE METHOD OF AMPLIFYING WEAK
SHOCK WAVES IN A TURBULENT COMBUSTION
ZONE (THEORY OF HIGH-FREQUENCY COMBUS-
TION ZONE) tr. by R. P. Illwitzer, 28 Nov 60, 17p.
4 refs. APL/JHU TG-230-T200.
Order from OTS \$0.50

61-11191

Trans. of Akademiya Nauk SSSR. Otdeleniya Tekhnicheskoy
Energetiki i Avtomatika, 1959, no. 5, p. 98-99.
Another translation is available from MDP \$8.50 as
MDP S-169 [1960] 16p.

The relation of the dimensionless pressure differential
in a shock wave to a dimensionless increase in burning
velocity is derived for an idealized rocket combustion
chamber. It is shown that the passage of a weak shock
wave through the combustion zone causes an increase in
the turbulent flame propagation rate. From these con-
siderations the criterion for amplification of weak
(Chemistry--Physical, TT, v. 5, no. 12) (over)

61-11191

1. Flame propagation--
Theory.
2. Shockwaves-- Theory
3. Combustion-- Turbulence
- I. Shchelkin, K. L.
- II. APL/JHU TG-230-T200
- III. Applied Physics Lab.,
Johns Hopkins U.,
Silver Spring, Md.
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Kadymov, Ya. B.
 THE APPLICATION OF THE DISCRETE LAPLACE
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 ELEMENTS WITH DISTRIBUTED PARAMETERS.
 [19(1) [12]p. 2 refs.
 Order from LC or SLA ml\$2.40, ph\$3.30 61-10762

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 Tekhnicheskikh Nauk. Izvestiya Energetika i
 Avtomatika, 1959, no. 5, p. 154-161.

The problem is considered of computing the transient
 response of the telegraph equation. For the special
 case without losses a simple representation was ob-
 tained that readily permits calculation of the "output"
 at any station at any preselected time. In the general
 case the exact result is given in terms of the sum of
 Bessel functions. For engineering purposes this sum
 is approximated by a simpler expression which yields
 satisfactory results.

(Engineering--Electrical, TT, v. 5, no. 9)

61-10762

- 1. Transformations
 (Mathematics)--Applications
- 2. Differential equations--
 Theory
- 3. Communication systems--
 Mathematical analysis
- 4. Title: Telegraph equations
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151847

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Influence of Error in Relative-Increase
Characteristics on Effect of Optimum Load
Dispatching Between Power Stations, by N. A.
Kartvelishvili.

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Energ i Avtomat, No 6, 1959, pp 16-21.

NLL M. 3020

SLA 61-27579

Sci - Engr

Feb 62

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The Design of Maximum-Capacity Turbo-Generators,
by I. D. Uzunov.

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NLL M. 3352

Sci - Electron

Apr 62

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No 14.

(DC-3639).

On the Similarity Between Combustion in a Detonation
Wave and in a Rocket Motor, by Yu. N. Denisov, Ya.
K. Troshin, K. I. Shchelkin, 17 pp.

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JPRS 3321

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Sci - Eng
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K. Troshin, K. I. Shchelkin
Yu. N. Denisov

No 1/1

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A System for Determining the Parameters of the
Motion of a Body in Space, by G. O. Fridlender,
13 pp.

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JPRS 3323

Sci - Engr
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JPRS 3324

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(00-4401)

September General Meeting of the Department of
Technical Sciences, by N. S. Solov'ev, p. 1.

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pp 200-202.

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Sci. - Engr

Aug 60

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(NY-3000/21)

Basic Problems in the Fuel and Power Balance of the
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JPRS 5047

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Determination of Medium Parameters of a
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USCL

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ACSI II-8304
ID 2161136

MDF P-156

Sci - Phys
Mar 61

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Use of a Twisted Stream to Intensify Convective Heat
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Energ i Avtomat, No 1, 1960, pp 55-61.

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Sci

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FTD MOL-1242/1

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On a Measure of the Orderliness of a Boolean
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Sci - Electronics

Nov 60

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On the Theory of Unperturbed Systems With
Three Channels for Compensating Accelerations,
Due to Gravitation Forces, by V. A. Bodner,
V. P. Sleznev, 14 pp.

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Sci - Phys

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182, 646

15 Feb 62

Shul'ga, N. G.
SEARCH FOR METHODS TO RAISE THE MAGNETIC
PROPERTIES OF HIGHLY-COERCIVE MAGNETIC
ALLOYS. [1960] 10p. 9 refs.
Order from MDF \$11.00

MDF S-172

Trans. of A[kadeniya] N[auk] SSSR. O[tdeleniye]
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61-12175

- I. Magnetic alloys--Magnetic properties
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Thermal Converters With Two Heaters in
Electrical Measurement and Analog Technique,
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Sequential Regression Analysis and Its
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Vol XXXI, No 11

Sci - Phys

179, 247

17 Jan 62

R-480-N/E

Transient Progress in Energy-Transferring
Systems as a Problem in the Theory of
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*JPRS fpr US Army Ord Ars Det

Sci

1 Mar 61

The Analysis of Energy Relations in a Supply System
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S. V. Zakharevich.

RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh
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NLL Ref: 9022.09 1963 (3229) (loan)

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Control by Direct Current Motors Using Raised
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MDP K-211
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Sci

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(DC-3933)

Measurement of the Energy of Fast Ions in a
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JPRS 3571

Sci - Phys

Aug 60

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(DC-3933)

Ionization in Laminar Flames, by N. N. Inozemtsev,
13 pp.

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JPRS 3572

Sci - Phys

Aug 60

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50 32, 107

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15

(DC-3933)

An Approach to the Theory of Errors in Space
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JPRS 3573

Sci - Phys

Aug 60

121,576

Pugachev, V. S.

A METHOD OF DETERMINATION OF THE OPTIMUM SYSTEM FROM THE GENERAL BAYES CRITERION (Metod Opredeleniya Optimal'noi Sistemy po Obshchemu Biesovu Kriteriyu). [1961] [23]p. (equations omitted) 12 refs. [DSIR LLU] M. 3128.
Order from OTS or SLA \$2.60

61-27534

Trans. of Akad[emiya] Nauk SSSR. Otdelenie
T[ekhnicheskikh] Nauk. Izvestiya: Energetika i
Avtomatika, 1960, no. 2, p. 83-97.

DESCRIPTORS: *Signals, Detection, Reproduction,
Noise, Statistical processes, *Probability, *Control
systems.

A method is described for determining the optimum system from the general Bayes criterion in the case when the input observed function and the signal being
(Engineering--Electronic, TT, v. 6, no. 10) (over)

61-27534

- I. Title: Bayes criterion
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AUTOMATIC CONTROL SYSTEMS. [1961] [11]p.
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Order from OTS or SLA \$1.60 62-10175

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Another trans. is available from OTS \$1.60 as AD-264 146, STL-TR-61-5110-3, Jan 61, 11p.

DESCRIPTORS: *Control systems, Automatic, *Pulse modulation, Stability, *Harmonic analysis, Nonlinear systems, Functions, Bessel functions, Fourier analysis, Data, Sampling.

A harmonic analysis is presented of the modulator output for a sinusoidal input. This output is represented (Engineering--Electronic, TT, v. 7, no. 9) (over)

62-10176

I. Pechorina, N. N.

Office of Technical Services

Perel'man, L. L.
CURRENT REGRESSION ANALYSIS AND ITS APPLI-
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TROL. [1964] [14]p. 7 refs.
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61-18811

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1960, no. 2, p. 122-131.

DESCRIPTORS: *Computers, *Control systems, Auto-
matic, Mathematical analysis, Functions, Statistical
processes, Statistical functions.

(Mathematics, TT, v. 6, no. 10)

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1. Perel'man, L. L.

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Sci - Phys

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Sep 1961 192,312

9

(DC-3901/27)

The Quantity of Coordinate Descriptions of Images
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(Character Recognition Devices), by V. S. Fayn,
15 pp

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Energet i Avtomat, No 2, 1960, pp 164-172.

JPRS 3570

Sci - Electronics

121,580

Aug 60

On the Quantitative Estimate of the Operational
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Sci - Phys

Aug 60

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Expt 122,457

Apashev, M. D. and Malov, P. V.
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NUMBER VALUES FOR THE STREAM FLOWING
PAST THE DROPLETS. [1962] 5p. 23 refs.
Available in ARS Journal, v. 32, no. 3, \$3.00

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DESCRIPTORS: Liquids, Water, Ethanol, Ethyl ethers, Ethers, Benzine, Kerosene, Fuel oil, *Drops, *Evaporation, Temperature, Mass transfer, Gas flow, Jets, Fuels, Reynolds number.

(Chemistry--Physical, TT, v. 7, no. 12)

62-12876

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- II. Malov, P. V.
- III. American Rocket Society,
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- IV. Primary Sources,
New York

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Ignition in a Flow by Hot Bodies, by
S. A. Gol'denberg, 3 pp.

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Vol XXII, No 5
May 1961

Sci-Engr

192, 320

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B. B. Levin, 4 pp.

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Nauk, Izvrg i Avtomat, No 2, 1960,
pp 205-209. 9672121

FTD-RT-61-141

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23 Jan 62

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Signals, by A. A. Krasovskiy, 15 pp.

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March 62

JPRS 12960

188,409

(DC-4316)

On the Theory of Unperturbed Systems With Three
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JPRS 6099

Sci - Phys

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The Effect of the Flight Speed of an Aircraft on
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JPRS 6099

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OTS 62-14264 / 29,853

Oct 60

(DC-4316)

Loss of Limited Damping in Inertial Systems
Operating as an Indicator During Phugoid Flight,
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JPRS 6099

Sci - Phys

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Basevich, V. Ya., Devishev, M. I., and Kogarko, S. M.

INFLUENCE OF ACTIVE PARTICLES OF COMBUSTION PRODUCTS ON THE SPEED OF FLAME PROPAGATION IN A TURBULENT FLOW, tr. by David T. Williams. Jan 62 [4]p. 7 refs. Available in ARS Journal, v. 32, no. 1, \$3.00

Trans. of Akademiya Nauk SSSR. Otdel[enie] Tekhnicheskikh Nauk. Izvestiya: Energetika i Avtomatika, 1960, no. 3, p. 138-144.

DESCRIPTORS: Turbulent flow, *Flame propagation, Velocity, Hydrogen, Combustion, Particles, Chemical reactions, Flames, Gases, Propane, Fuels, Ignition, Propagation.

(Chemistry--Physical, TT, v. 7, no. 10)

62-12690

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- III. Kogarko, S. M.
- IV. Florida U., Gainesville
- V. American Rocket Society, New York

OTS 62-10275

Office of Technical Services

(DC-3901/34)

Quasi-Topological Method of Letter Recognition, by
V. A. Gamaish, V. S. Pereverzev, V. M. Tsirlin,
6 pp.

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JPRS 6633

Sci - Misc

Feb 63

138, 835

Reproduction of Acceleration Processes
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Modeling Installations, by B. Ya.

Kogan, 18 pp.

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FTT-T-64-1127

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An Approximate Method for Computing the Dynamic
Characteristics of Electromagnetic Mechanisms,
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MDF T-153
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Sci
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CONTROL (O Vremeni Polosa v Diskretnykh Sistemakh
Ekstremalnogo Regulirovaniya). [1964] [29p] (foreign
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(Engineering, TT, v. 11, no. 12)

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Office of Technical Services

Statistical Dynamics of Systems With Proportional
Extremal Control of In-Line Correct Devices,
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